Course Descriptor
[CVEN470 Project Management]

Proposed Academic Year	2019-2020	Last Reviewed Academic Year	2020-2021
Course Code	CVEN470	Course Title	Project Management
Credit hours	3	Level of study	Undergraduate
College / Centre	College of Engineering	Department	Civil & Environmental Engineering
Co-requisites		Pre-requisites	

1.   COURSE OUTLINE

[This course will prepare students to build their skills in areas of Project Management. The Course will also include a brief training on MS Project 2013.]

2.   AIMS

[This course will help students identify the features and attributes of a project; and identify the steps and variables of the project management process.

The course will allow students to explore the intricacies of Project Management.

- Identify the effects of the environment, various socioeconomic and organizational issues, and organizational structure on a project; and identify the critical functions, necessary skills, responsibilities, and challenges of a project manager.

- Identify the components of time management; identify the purpose of activity definition and sequencing; recognize different diagramming techniques; identify the factors affecting activity duration; and identify techniques for estimating activity duration.

- Describe schedule development; use mathematical analysis techniques for schedule development; identify the purpose of schedule control; and describe the importance of schedule adherence.]

3.   LEARNING OUTCOMES (Definitive) and TEACHING, LEARNING and ASSESSMENT METHODS

Learning Outcomes (Definitive) Upon successful completion of this course, students will be able to:	Teaching and Learning methods (Indicative)	Assessment (Indicative)
1. Develop CPM schedules	Lectures	e.g in-class tests, quizzes
2. Perform periodic updates	Lectures - lab work	Quiz-Exams
3. Monitor and forecast resource demands	Lectures - lab work	Written Examination
4. Analyze delays and devise remedial strategies	Lectures - lab work	Quiz - Exams
5. Acquire basic understanding of quality control, field supervision, and other common construction procedures	Lectures - lab work	Quiz - Exams
6. Be proficient with M.S. Project software	Lab work	Quiz - Exams

4.   ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Assignment & Participation	20%
Quiz	20%
Midterm	20%
Final Exam	40%
TOTAL	**100%**

5.   ACHIEVING A PASS

Students will achieve 3 credit hour for this course by passing ALL of the course assessments (Assignments, Quiz, Midterm and Final examinations) and achieving a minimum overall score of 50.

*NB *Ensure that ALL learning outcomes are taken into account*

6.   Course Delivery Plan

LECTURE TOPIC	TIME (HOURS)
Syllabus presentation	1.5
Define the project – Project life cycle	1.5
Introducing project management	1.5
Knowledge areas of PM - PM process	1.5
PROJECT PLANNING	1.5
Project objectives and planning - Defining the exact project scope - Verifying & controlling project scope	1.5
Activities and Dependencies	1.5
WBS - Estimate activities -Sequence dependencies	1.5
Techniques for schedule development	1.5
PERT – GANT - CPM	1.5
Exercises 01	1.5
Exercises 02	1.5
Identify needed resources	1.5
Resources information - Resources calendars - Resources cost	1.5
Tasks types	1.5
Fixed duration - Fixed work - Fixed units	1.5
Assign resources	1.5

Application (Construction of small firm)	1.5
Resource leveling	1.5
Leveling alternatives	1.5
Saving a project baseline	1.5
Baseline - Interim plan	1.5
Updating project data	1.5
Project tracking - Progress line	1.5
Earned value concept	1.5
BCWS, BCWP, ACWP, SV, CV, BAC, EAC, VAC, SPI	1.5
Risk analysis	1.5
PERT method	1.5
Report project performance	1.5
Revision	1.5
TOTAL HOURS	**45**
Plus **RECOMMENDED INDEPENDENT STUDY HOURS**	**90**
TOTAL COURSE HOURS	**135**

7.   RECOMMENDED READING

Core text/s:
Project Management in Construction ISBN: 0-566 08612-3
Dynamic scheduling with Microsoft Project 2013. ISBN: 978 1 60427 112 6

Library + online resources: